

CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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SECURITY INFORMATION

50X1-HUM

COUNTRY	East Germany	REPORT	
SUBJECT	Establishment of the Central Institute of Radio Technology in Berlin-Adlershof	DATE DISTR.	18 August 1953
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(FOR KEY SEE REVERSE)

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1. A new institute named the Zentralinstitut fuer Funktechnik (Central Institute of Radio Technology) was founded on 1 May 1953. It occupies buildings at Berlin-Adlershof, Rudower Chaussee 116, formerly occupied by the Fernseh Zentrum, which it has absorbed. Additional buildings to be occupied by the institute are under construction on the same site.
2. The new institute is to include the following departments:
 - a. High vacuum and electronic tubes.
 - b. Radar
 - c. Wireless signalling equipment
 - d. Line signalling equipment (including carrier frequency equipment).
 - e. Fundamental research in the decimeter and centimeter bands.
3. At present, only the Department for High Vacuum and Electronic tubes exists. It was originally proposed that a staff of 256 would be employed in the department, but a cut in the proposed budget has caused this figure to be reduced to 155. This department will include the following sections:
 - a. Development of picture tubes (Bildfaengerroehren). (Section already exists).
 - b. Development of large projection tubes. (Section already exists.)
 - c. Development of special tubes for use in decimeter and VHF communications. (New section.)
 - d. Development of switch tubes and tubes for special purposes (Trochotrons and tubes like Bandstrahlroehren). (Section already exists.)
 - e. Development of cathodes, materials etc.

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-- 2 --

f. Chemical laboratory.

g. Design office.

4. Work at present being undertaken in the Department for High Vacuum and Electronic Tubes includes the following projects:

a. Laboratory for external photo effects (Physicist Otto and Engineer Schmiede)

1. Intermediate image iconoscope (Zwischenbildikonoskop), 800 lines. Photo-sensitivity of the image converter portion 40-70 microamps per lumen. The tube incorporates new types of ray system and gratings (Raster).
2. Intermediate image orthicon. Two forms - "stick grenade" shape and tubular shape (Micro-Rohre). A new type of secondary emission multiplier is planned.
3. Photo-multiplier. Amplification of 10^5 achieved with 6-7 stages by the use of a special alloy for the impact cathodes (Prallkathoden). Statical bundling designs. Antimony-caesium alloy used for photo-cathode. Stage voltage approximately 350 V.

b. Laboratory for internal photoelectric effects (Developer Koewing)

Development of a Vidicon designs.

50X1-HUM

c. Laboratory for large projection tubes (Engineer Haucke)

1. 100 kv equipment for the illumination of a screen (Kinsenrasterschirm) of about 12 square meters area. Tube to be air or liquid cooled. The high tension generator, control stage valve, and X-ray absorbing glass, are also being developed.
2. Trochotron. This task has been put aside because of lack of staff, and the greater priority of the work on the large projection apparatus.

d. Technological laboratory (Engineer Gromadies)

Mainly concerned with the development of special glass for the feed foil (Speicherfolie) of the intermediate image orthicon and with the production of a usable cathode paste, since the pastes produced by the Werk fuer Fernmeldewesen HF and the Funkwerk Erfurt do not have the requisite emission.

5. The staff of the Institute includes the following:

50X1-HUM

Dr. Gerhardt

Head of the Institute.

Dip. Ing. Walter Hess

Head of the Department for High Vacuum and Electronic Tubes.

The following subordinates of Dip. Ing. Hess also returned recently from the USSR:

Dip. Ing. Hellmut Probst
Ing. Haucke
Ing. Baehr
Ing. Gromadies
Ing. Albert Bohne

Laboratory for electronic optics
Laboratory for large projection tubes
Development of apparatus
Technological Laboratory (Formerly Telefunken)
Design Office (Formerly Telefunken)

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- 3 -

Mueller
 Bradtke
 Peters
 Feigel
 Senf
 Richter
 Rohwedder
 Tippe
 Wetzig
 Wehlan
 Fiedler
 Schulz
 Fischer
 Gross
 Arndt
 Fiebelkorn
 Franke
 Golze
 Kolberg
 Schuster
 Zimmermann
 Vahl
 Koewing
 Dipl.Ing. von Bruck

Foreman, System assembly
 Head of the mechanical workshops
 Foreman, Mechanical workshops
 Technologist
 Glass technician
 Foreman, Glass blowing shop
 High frequency engineer
 High frequency engineer
 High frequency engineer
 High frequency engineer
 High frequency engineer
 Designer
 Designer
 Electrode mechanic
 Electrode mechanic
 Electrode mechanic
 Electrode mechanic
 Electrode mechanic
 Electrode mechanic
 Electrode mechanic
 Glass technician
 Storeman
 Laboratory for internal photoelectric effects

The following persons are also employed in the Institute:

Koschel
 Dip. Ing. Legler
 Ladwig
 Anton
 Hasse
 Berthold
 Alfred Bohne
 Frau Selting
 Frl. Jurzina
 Frl. Hahn
 Frau Bergunde
 Frl. Mizgajski
 Frl. Rohrbran
 Frau Block
 Frau Kuhnke
 Ing. Schmiede
 Frau Schmiede
 Frau Hoppe
 Jonatat
 Reschke
 Boegel
 Steub
 Attmann
 Brunzlow
 Karg

Personnel officer
 High frequency engineer
 Chemical engineer
 Mathematician
 Glass technician
 Electrode technician
 Chief buyer
 Buyer
 Designer
 Technical draughtsman
 Stenographer
 Secretary
 Technical assistant
 Unskilled
 Unskilled
 Laboratory for external photo effects
 Technician
 Stores
 Mechanic
 Designer
 Draughtsman
 Clerk
 Glassblower
 Glassblower
 Fitter

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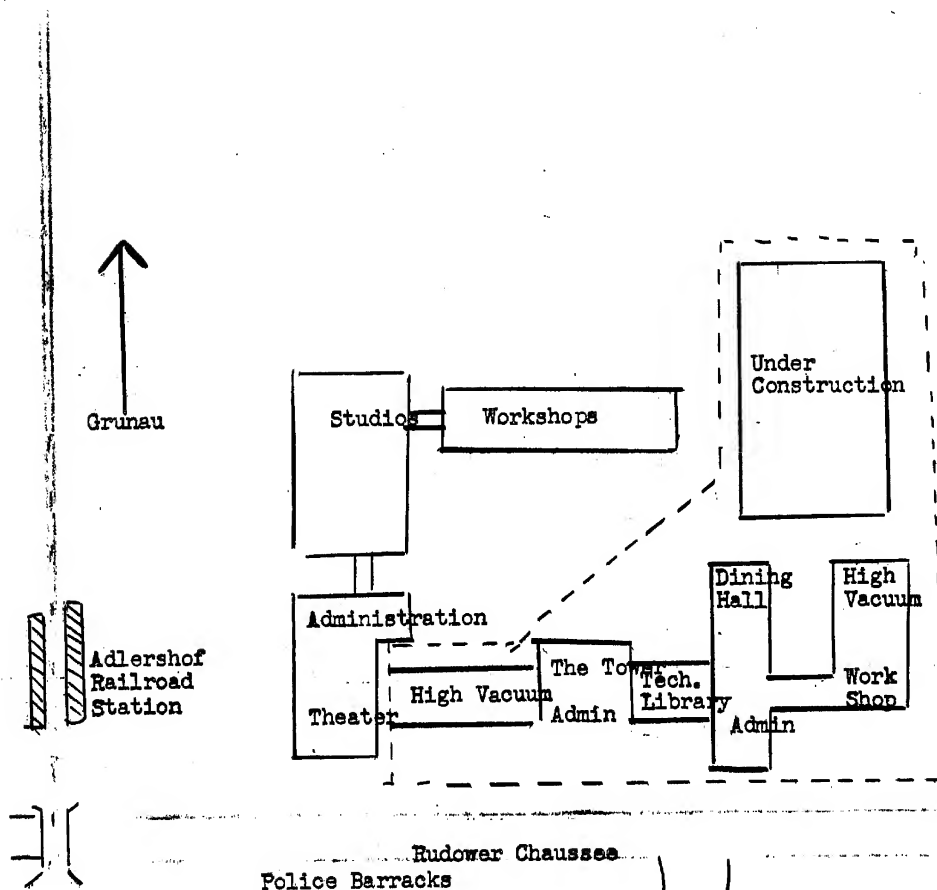
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- 4 -

Appendix

Key: Inside dotted line To be occupied by the Central
Institute for Communications
Technics.

Outside dotted line To continue to be occupied by the
Television Center.



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